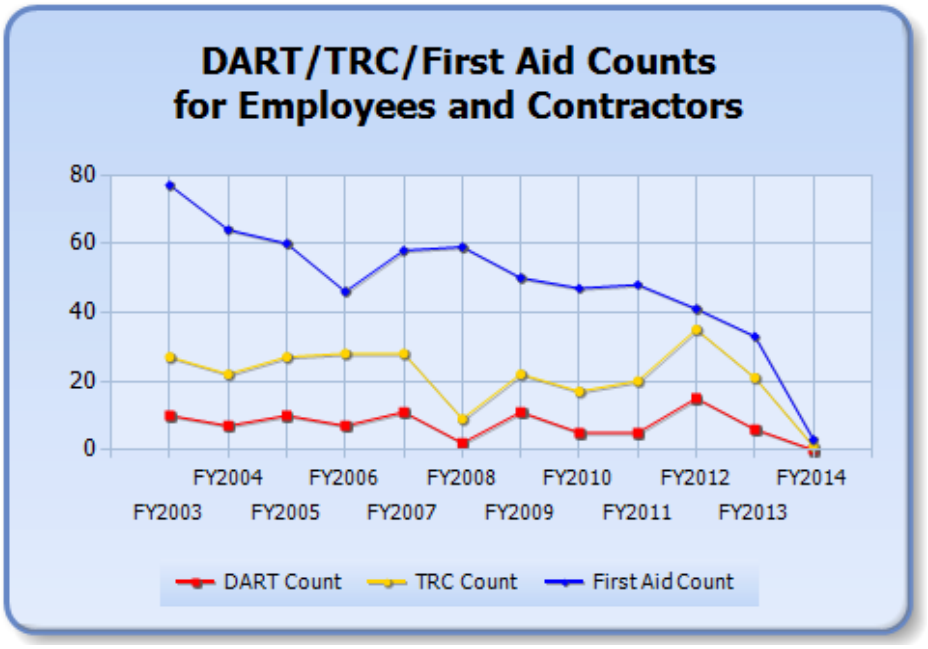
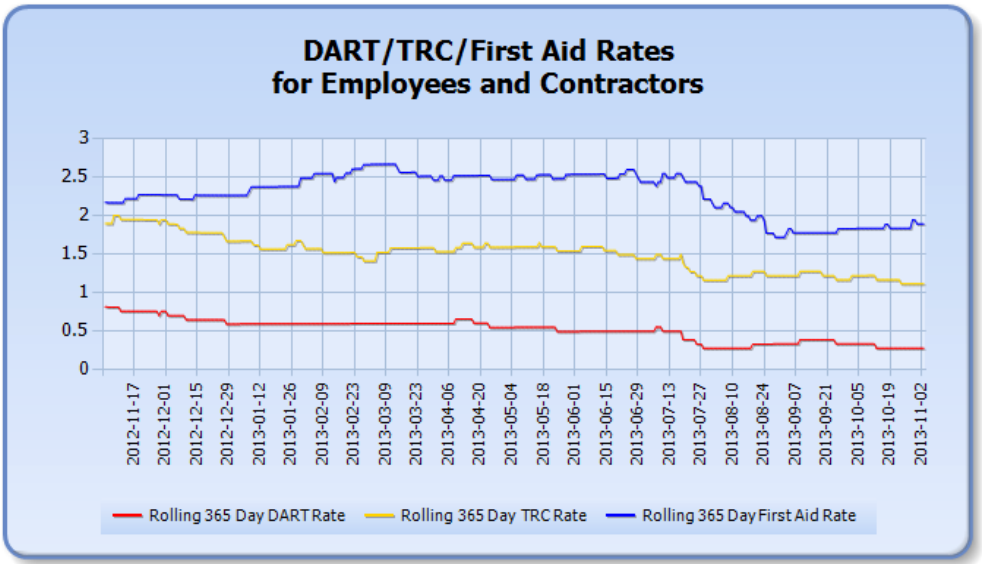
Fermilab U.S. DEPARTMENT OF ENERGY

Weekly Lab Status Meeting – November 05, 2013

Fiscal Year Summary by injury type

	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014
DART	10	7	10	7	11	2	11	5	5	15	6	0
TRC	28	22	28	28	29	9	23	18	20	35	23	1
First Aid	78	65	62	46	58	61	52	48	48	41	34	3





Injuries:

Division	Category	Case Date	Date Entered	Recordable?	Rx	Medical ODD	Medical LDD	ESH ODD	ESH LDD	
AD	FNAL	10/29/2013	10/29/2013	N		0	0	0	0	

Medical Comments: Employee was investigating a BPM problem and grabbed a dangling cable and received an electrical shock. Numbness in right hand from shock and pain in right elbow from jerking arm back.

ESH Comments: See ORPS below

Division	Category	Case Date	Date Entered	Recordable?	Rx	Medical ODD	Medical LDD	ESH ODD	ESH LDD	
PD	FNAL	10/29/2013	10/29/2013	N		0	0	0	0	

Medical Comments: While cleaning up a leak on the detector the employee tried to prop up secondary containment to keep it from leaking. Wearing gloves and Tychem suit the sleeve kept creeping up exposing the employee's skin to scintillator fluid. The employee noticed a red patch on right ulnar forearm midpoint at 12:00 noon. Over the counter cream was applied.

ESH Comments: While searching for and mitigating leaks in the secondary containment, scintillator oil contacted right forearm. Employee was wearing nitrile gloves and a Tychem suit during the job, but the sleeves kept creeping up, leaving the forearms exposed. After completion of the job, hands and forearms were washed. Two quarter-size itchy red patches were noticed on right forearm approximately 2 hours later. Reported to medical, was given over-the-counter cream to apply on skin. First aid only.

Claim Pending:
None
Vehicle Accidents:
None

ORPS/Incidents/Notices of Violations:

ORPS Title: Contact with abandoned heliax cable causes employee electrical shock

Reporting Criteria: 2E(1) - Any unexpected or unintended personal contact (burn, injury, etc.) with an electrical hazardous energy source (e.g., live electrical power circuit, etc.).

Description of Occurrence: The employee was working in the MI-30 Service Building troubleshooting an instrumentation problem when he received an electrical shock. Simultaneously, the Main Injector (MI) accelerator high voltage bus tripped on a ground fault indication, shutting down power to the bus. The employee stated that he was reading a monitor in the MI-30 Control Room. While reading the monitor, he rested his left hand on a vertical section of one side of a relay rack while at the same time he rested his right hand on the vertical section of the other side of the relay rack. There were two heliax cables, terminated with connectors but not grounded or connected to a device, tied together with a cable tie running along the right side of the relay rack. As the employee grasped the relay rack with his right hand, his hand also came in contact with the connectors on the ends of these cables. He then experienced an electric shock in his right arm. The shock caused his right hand to clench around the vertical portion of the rack and the cable connectors, bringing the connectors into contact with the grounded vertical portion of the relay rack. The employee jerked back sharply and pulled free of the rack. He experienced mild pain in his

right hand due to the shock and, later, pain in his right elbow related to the force with which he pulled his hand off of the rack. He went to the onsite Medical Department where he was given an EKG which revealed no irregular conditions. The employee returned to work without restrictions. The two cables connect to larger cables before leaving the Control Room and entering the MI-30 Kicker Room. The cables then run through a penetration and down to the Main Injector Tunnel. An access was made to the Main Injector tunnel following the incident. The cables were located and one of them was found to have a damaged outer jacket. The ground shield on this cable was exposed due to the jacket damage and the ground shield had come in contact with the exposed MI bus. The bus voltage ranges up to 800 V dc. The cable was no longer in use and had been abandoned in place.

TRC & DART Details for Current Fiscal Year

Organization	TRC Cases	TRC Rate	TRC 3-Year Average	TRC KPI	DART Cases	DART Rate	DART 3-Year Average	DART KPI
AD	0	0.00	2.39	↓	0	0.00	0.57	↓
APC	0	0.00	0.00	→	0	0.00	0.00	→
BS	1	9.71	1.92	↑	0	0.00	0.55	↓
CCD	0	0.00	0.29	↓	0	0.00	0.00	→
CD	0	0.00	0.12	↓	0	0.00	0.12	↓
CMS	0	0.00	0.00	→	0	0.00	0.00	→
DI	0	0.00	2.38	↓	0	0.00	0.00	→
ES	0	0.00	0.89	↓	0	0.00	0.89	↓
FCPA	0	0.00	0.00	→	0	0.00	0.00	→
FE	0	0.00	3.85	↓	0	0.00	2.26	↓
FI	0	0.00	0.00	→	0	0.00	0.00	→
LBNE	0	0.00	0.00	→	0	0.00	0.00	→
PD	0	0.00	0.65	↓	0	0.00	0.39	↓
SCD	0	0.00	0.25	↓	0	0.00	0.25	↓
TD	0	0.00	1.66	↓	0	0.00	0.49	↓
WR	0	0.00	1.32	↓	0	0.00	0.00	→
Fermilab	1	0.63	1.40	↓	0	0.00	0.48	↓

Required ESH Training and ITNA Status for Employees

Org	Completed Courses	Required Courses	Percent Completed	Employees	Current ITNAs	ITNAs < 1 Year Old	Missing ITNAs	ITNAs > 3 Years Old
AD	9103	9305	97.8%	433	425	98.2%	0	0
APC	601	607	99.0%	49	49	100.0%	0	0
BS	2394	2424	98.8%	145	145	100.0%	0	0
CCD	1409	1440	97.8%	99	99	100.0%	0	0
CD	418	422	99.1%	37	36	97.3%	1	0
CMS	167	173	96.5%	17	17	100.0%	0	0
DI	675	679	99.4%	58	55	94.8%	0	0
ES	1013	1028	98.5%	43	42	97.7%	0	0
FCPA	116	116	100.0%	9	9	100.0%	0	0
FE	2592	2675	96.9%	111	111	100.0%	0	0
FI	444	444	100.0%	34	34	100.0%	0	0
LBNE	100	104	96.2%	7	7	100.0%	0	0
PD	6481	6615	98.0%	418	415	99.3%	0	0
SCD	1840	1888	97.5%	160	154	96.3%	0	0
TD	4223	4302	98.2%	217	214	98.6%	0	0
WR	1211	1217	99.5%	105	104	99.0%	1	0
Fermilab	32787	33439	98.1%	1942	1916	98.7%	2	0

> 95% 90-95% < 90%

Missing ITNAs and ITNAs > 3 Years Old = Red
Missing ITNAs for New Employees = Yellow